



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of **Argenta, et al.**
 Application No. **10/647,068**
 Attorney Docket No. **0101 P02977US1**
 Filed: **August 21, 2003**
 For: **Bone Treatment Employing Reduced Pressure**
 Examiner: **Unknown**
 Group Art Unit: **Unknown**

CERTIFICATE OF MAILING UNDER 37 C.F.R § 1.8(a)

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Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97**

In compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants are submitting herewith a Form PTO-1449 and a copy of the non-U.S. references listed thereon. This Information Disclosure Statement is being filed within three months of the filing date. Accordingly no fee is required.

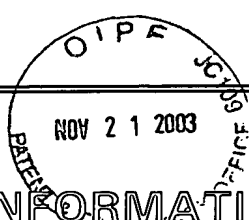
Applicants respectfully request full and proper consideration of the listed information during examination of the application, and that the listed information be printed on any patent that issues therefrom.

Respectfully submitted,

DANN, DORFMAN, HERRELL & SKILLMAN
A Professional Corporation
Attorneys for Applicant(s)

By
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Enclosures - Form PTO-1449
Copies of references listed on PTO - 1449



**INFORMATION
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STATEMENT**

SHEET 1 OF 12

Complete if known

Application Number: 10/647,068

Filing Date: August 22, 2003

First Named Inventor: Argenta, et al.

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Examiner Name: Unknown

Attorney Docket Number: 0101-P02977US1

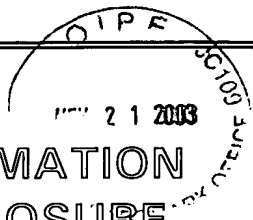
UNITED STATES PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE MM-DD-YYYY	FIRST NAMED INVENTOR
	A1	4925447	05/90	ROSENBLATT
	A2	5149331	09/92	FERDMAN et al.
	A3	5113871	05/92	VILJANTO
	A4	4820284	04/89	HAURI
	A5	4573965	03/86	RUSSO
	A6	3993080	11/76	LOSEFF
	A7	3908664	09/75	LOSEFF
	A8	4540412	09/85	VAN OVERLOOP
	A9	4525166	06/85	LECLERC
	A10	4969881	11/90	VIESTURS
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	A19	3682180	08/72	McFARLANE
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	A22	4275721	06/81	OLSON
	A23	4373519	02/83	ERREDE et al.
	A24	4392853	07/83	MUTO
	A25	4419097	12/83	ROWLAND

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	A26	4480638	11/84	SCHMID
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	A28	4605399	08/86	WESTON et al.
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	A31	4743232	05/88	KRUGER
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	A39	3026874	03/62	STEVENS
	A40	3874387	04/75	BARBIERI
	A41	3896810	07/75	AKIYAMA
	A42	3954105	05/76	NORDBY et al.
	A43	4112947	09/78	NEHRING
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	A46	4382441	05/83	SVEDMAN
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	A48	4820265	04/89	DESATNICK et al.
	A49	4834110	05/89	RICHARD
	A50	4921492	05/90	SCHULTZ et al.
	A51	RE29319	07/77	NORDBY et al.
	A52	765746	07/04	MINER
	A53	843674	02/07	FUNK

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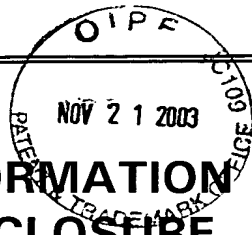
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A54	1355679	10/20	McCONNELL
A55	1355846	10/20	RANNELLS
A56	1385346	07/21	TAYLOR
A57	2232254	02/41	MORGAN
A58	2338339	01/44	LaMERE
A59	2969057	01/61	SIMMONS
A60	3026526	03/62	MONTROSE
A61	3486504	12/69	AUSTIN, JR.
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A65	3826254	07/74	MELLOR
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A81	5228431	07/93	GIARRETTO

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	A82	3520300	07/70	FLOWER et al.
	A83	5636643	06/97	ARGENTA et al.
	A84	3568675	03/71	HARVEY
	A85	3042041	07/62	JASCALEVICH
	A86	2280915	04/42	JOHNSON
	A87	3324855	06/67	HEIMLICH
	A88	3753439	08/73	BRUGAROLAS ET AL.
	A89	5645081	07/97	ARGENTA ET AL.

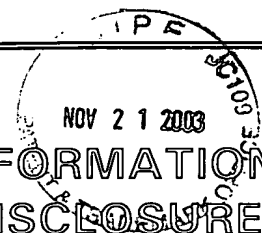
FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	DOCUMENT NUMBER	COUNTRY OR REGION	DATE OF PUBLICATION MM-DD-YYYY
	B1	9100718	WO	01/91
	B2	9220299	WO	11/92
	B3	641061	UNITED KINGDOM	08/50
	B4	1273342	UNITED KINGDOM	05/72
	B5	2809828	GERMANY	09/78
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	B10	4111122	Germany	4/93
	B11	847475	Germany	6/52
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	B13	0620720	Europe	10/94
	B14	0688189	Europe	9/00

OTHER PRIOR ART - NON-PATENT DOCUMENTS

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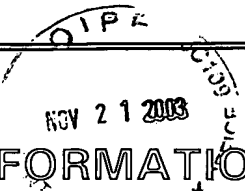
Attorney Docket Number: 0101-P02977US1

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	M. Gosta Arturson, <u>The Pathophysiology of Severe Thermal Injury</u> , <u>JBCR</u> , 6(2):129-146 (March-April) 1985.
	C2	R. A.F. Clark et al., <u>The Molecular and Cellular Biology of Wound Repair</u> , Chapter 1 (1988)
	C3	Jeter, K.F. et al. (eds.), "Managing Draining Wounds and Fistulae: New and Established Methods," <u>Chronic Wound Care: Health Management Publications</u> , 1990, pp 240-246.
	C4	Aeros, "Moblvac II."
	C5	Aeros, Aeros Instruments, Inc. 1111 Lakeside Drive, Gurnee, IL 60031. August, 1993. "Care-E-Vac."
	C6	Emerson, Series 55. J. H. Emerson Co., 22 Cottage Park Ave., Cambridge, MA 02140. "Emerson Post-Operative Suction Pumps."
	C7	Emerson, J. H. Emerson Co., (address: same as above). "Emerson Transport Suction Unit."
	C8	Aeros, Aeros Instruments, Inc. 3411 Commercial Ave., Northbrook, IL 60062. October 1988. Part No. 1504-02 7M. "Instavac Aspirator."
	C9	"Pleur-evac. Adult-Pediatric, Non-Metered." Code Number: A-4000. Control Number: F7961J.
	C10	Instruction Manual, Creative Medical Laboratories, Inc. P.O. Box 6347, Rochester, Minn. 55903. "TUGS" (Transportable Universal Gradient Suction).
	C11	Deknatel, Div. of Howmedica, Inc. Quenns Village, NY 11429. "Pleur-evac."
	C12	Sparta Instrument Corp. 26602 Corporate Ave., Hayward, CA 94545. "Power Source Multi-Purpose Surgical Aspirator."
	C13	Wells Johnson Company, 2045 N. Forbes Blvd., Suite 106, Tucson, AZ. "Point 5 Aspirator."
	C14	Microtek Heritage, Inc. P.O. Box 2487, Columbus, MS 39704. "Wound-Evac ET."
	C15	Fleischmann, W. <u>Wund Forum Spezial</u> . IHW '94. "Vakuumversiegelung zur Behandlung von Problemwunden" (with English translation: "Vacuum sealing for Treatment of Problematical Wounds.")
	C16	Fleischmann, W. <u>Acta Orthopaedica Belgica</u> . Vol. 58, Suppl. I-1992 "Treatment of Bone and Soft Tissue Defects in Infected Nonunion."
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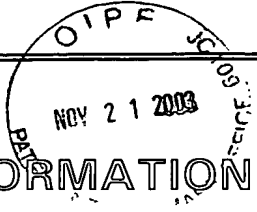
SHEET 6 OF 12

Attorney Docket Number: 0101-P02977US1

C18 ✓	Valenta, A. <u>American Journal of Nursing</u> . April 1994. "Using the Vacuum Dressing Alternative for Difficult Wounds."
C19 .	Junod, "Hyperemia by Suction Apparatus" Chapter VIII
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C21 ✓	Landis et al, Robinette Foundation of the Hospital of the University of Pennsylvania, "The Effects of Alternate Suction and Pressure on Blood Flow to the Lower Extremities"
C22 .	Hargens et al., Space Physiology Laboratory, Life Science Division, NASA Ames Research Center, "Control of Circulatory Function in Altered Gravitational Fields"
C23 .	Wolthuis et al, <u>Physiological Reviews</u> , <u>54</u> : 566-595, July 1974, "Physiological Effects of Locally Applied Reduced Pressure in Man"
C24 .	Viljanto et al., <u>Br. J. Surg.</u> , <u>63</u> : 427-430, 1976, "Local Hyperalimination of Open Wounds"
C25 .	Dillon, R. <u>Angiology -- The Journal of Vascular Diseases</u> , pp. 47-55, January 1986, "Treatment of Resistant Venous Stasis Ulcers and Dermatitis with the End-Diastolic Pneumatic Compression Boot"
C26 .	Lundvall et al., <u>Acta Physiol Scand</u> , <u>136</u> : 403-409, accepted Jan. 28, 1989, "Transmission of externally applied negative pressure to the underlying tissue. A study on the upper arm of man"
C27 ✓	Klemp et al., <u>The Journal of Investigative Dermatology</u> , pp. 725-726 (1989), "Subcutaneous Blood Flow in Early Male Pattern Baldness"
C28 .	A. Harle, <u>Z. Orthop.</u> , <u>127</u> : 513-517 (1989), "Schwachstellen herkommlicher Drainagen" with English Translation.
C29 .	Dunlop et al., <u>Br. J. Surg.</u> , <u>77</u> : 562-563 (1990), "Vacuum drainage of groin wounds after vascular surgery: a controlled trail" with English Translation.
C30 .	Maddin et al., <u>International Journal of Dermatology</u> , <u>29</u> : 446-450 (1990), "The Biological Effects of a Pulsed Electrostatic Field with Specific Reference to Hair: Electrotrichogenesis"
C31 ✓	Nakayama et al., <u>Ann. Plast. Surg.</u> , 499-502 (1991), " A New Dressing Method for Free Skin Grafting in Hands"
C32 .	Hargens et al., <u>Aviation, Space and Environmental Medicine</u> , pp. 934-937, Oct. 1991, "Lower Body Negative Pressure to Provide Load Bearing in Space"
C33 ✓	Author unknown, <u>Science</u> , Sept. 1992, p.42, "The Not-So-Bald-Truth"
C34 .	Techno Takatsuki Co., Ltd., 8-16 Hatchonishimachi, Takatsuki City, Osaka, JAPAN, "HiBlow Air Pump"

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SHEET 7 OF 12

Attorney Docket Number: 0101-P02977US1

C35	·	Wells Johnson Company, 2045 N. Forbe Blvd., Suite 106, Tucson, AZ, "Suction Tips"
C36	·	Industrial Equipment News, P.O. Box 1158, Skokie, IL 60076-9786, "Miscellaneous Equipment"
C37	·	Letsou et al. "Stimulation of Adenylate Cyclase Activity in Cultured Endothelial Cells Subjected to Cyclic Stretch." Cardiovascular Surgery 3. Toronto. Sept. 1989. 634-639.
C38	·	Bucalo et al. "Inhibition of Cell Proliferation by Chronic wound Fluid." Wound Repair and Regeneration. Miami 1991. 181-186
C39	·	Falanga, Vincent. "Growth Factors and Chronic Wounds: The need to Understand the Microenvironment." Journal of Dermatology, Bol. 19: 667-672. 1992.
C40	·	Urschel et al. "The Effect of Mechanical Stress on Soft and Hard Tissue Repair; a Review." British Journal of Plastic Surgery. 41, 182-186. 1988.
C41	·	Gogia, Prem P. "The Biology of Wound Healing." Ostomy/Wound Management. Nov.-Dec. 1992. pp 12-20
C42	·	Wysocki et al. "Wound Fluid from Chronic Leg Ulcers Contains Elevated Levels of Metalloproteinases MMP-2 and MMP-9." The Society for Investigative Dermatology, Inc. July 1993. 64-68
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C44	·	Mulder, G. D. et al. (eds.), <u>Clinicians' Pocket Guide to Chronic Wound Repair</u> , (Spartanburg, SC: Wound Healing Publications), 1991, pp. 54-55.
C45	·	Chariker, M. E. et al. (eds), "Effective Management of Incisional and Cutaneous Fistulae with Closed Suction Wound Drainage," Contemporary Surgery, Vol. 34, June 1989, pp 59-63.
C46	·	Rastgeldi, S.: I. Pressure Treatment of Peripheral Vascular Diseases. II. Intermittent Pressure Treatment of Peripheral Vascular Diseases. Opuscula Medica, Suppl. XXVII, 1972.
C47	·	OP-Journal Nr. 3, Jahr. 6, Dec. 1990, pp 31-35 W. Fleischmann, M. Mentzel, L. Kinzl "BWS, Gefahren und Komplikationen der Therapie" with English Trans.
C48	·	Zumtobel et al., (1991) "Wunddrainage in der Elektiveund Notfallchirurgie" Wolfgang Pabst Verlag, relevant page 12, left column. English Translation attached.
C49	·	Saechtling, Kunststoff-Taschenbuch, 24. Ausgabe 1989, S. 439, 477. English Translation attached.
C50	·	Mutschler, W. Bakker D. J., "Temporärer Hautersatz", ZFA 1989, Heft 24, S. 714-720 als Sonderdruck. English Translation attached.
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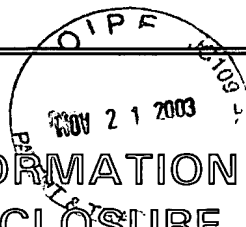
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C52	Argenta LC, Morykwas MJ. Vacuum-assisted closure: a new method for wound control and treatment: clinical experience. <i>Ann Plast Surg</i> 1997;38: 563-576
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C54	Davydov IA, Larichev AB, Smirnov AP, Flegontov VB. Vakuum-terapiia v lechenii ostrykh gnoinykh zabollevanii miagkikh tkanei i gnoinykh ran. [Vacuum therapy of acute suppurative diseases of soft tissues and suppurative wounds]. <i>Russian Vestnik Khirurgii Imeni i - i - Grekova</i> 1988; 141: 43-6 with Eng.Trans.
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C58	Kochnev VA. Primenenie vakuum-drenazhnoi sistemy dlia profilaktiki posleoperatsionnykh ranevykh oslozhnenii u bol'nykh opukholiami. [The use of a vacuum drainage system in the prevention of postoperative wound complications in tumor patients]. <i>Russian. Voprosy Onkologii</i> 1967; 13:102-5, w/Eng. Trans.
C59	Mirazimov BM. Svobodnaia Kozhnaie plastika stopy s podgotovkoi ranevoi poverkhnosti vakumiravaniem [Free skin graft of the foot with vacuum preparation of the wound surface]. <i>Russian. Orthopediia Travmatologiiia i Protezirovanie</i> 1966;27:19-22, with English Translation.
C60	Mirazimov BM, Vasina TA, Mezhericher MI. Mikroflora dlitel'no nekazhivaiushchikh ran i effektivnost' metoda vakuumirovaniia. [Microflora of prolonged non-healing wounds and the effectiveness of the vacuum evaporative method]. <i>Russian. Khirurgiia</i> 1967; 43: 40-3, with English Translation.
C61	Mirazimov BM. Vorbereitung von Wunden und Geschwuren zur Hautplastik unter Anwendung der Vakuumierung [Preparation of wounds and abcesses for dermatoplasty by means of a vacuum device]. <i>German. Beitrage zur Orthopadie und Traumatologie</i> 1967; 14:224-30, with Eng. Translation.

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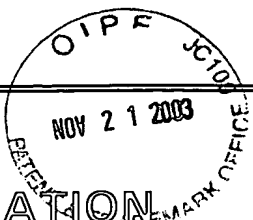
SHEET 9 OF 12

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